



# The Chlorine Institute's Mission is Safety

# The Chlorine Institute Mission

The Chlorine Institute (CI) exists to support the chlor-alkali industry and serve the public by responsibly using and producing mission chemicals and

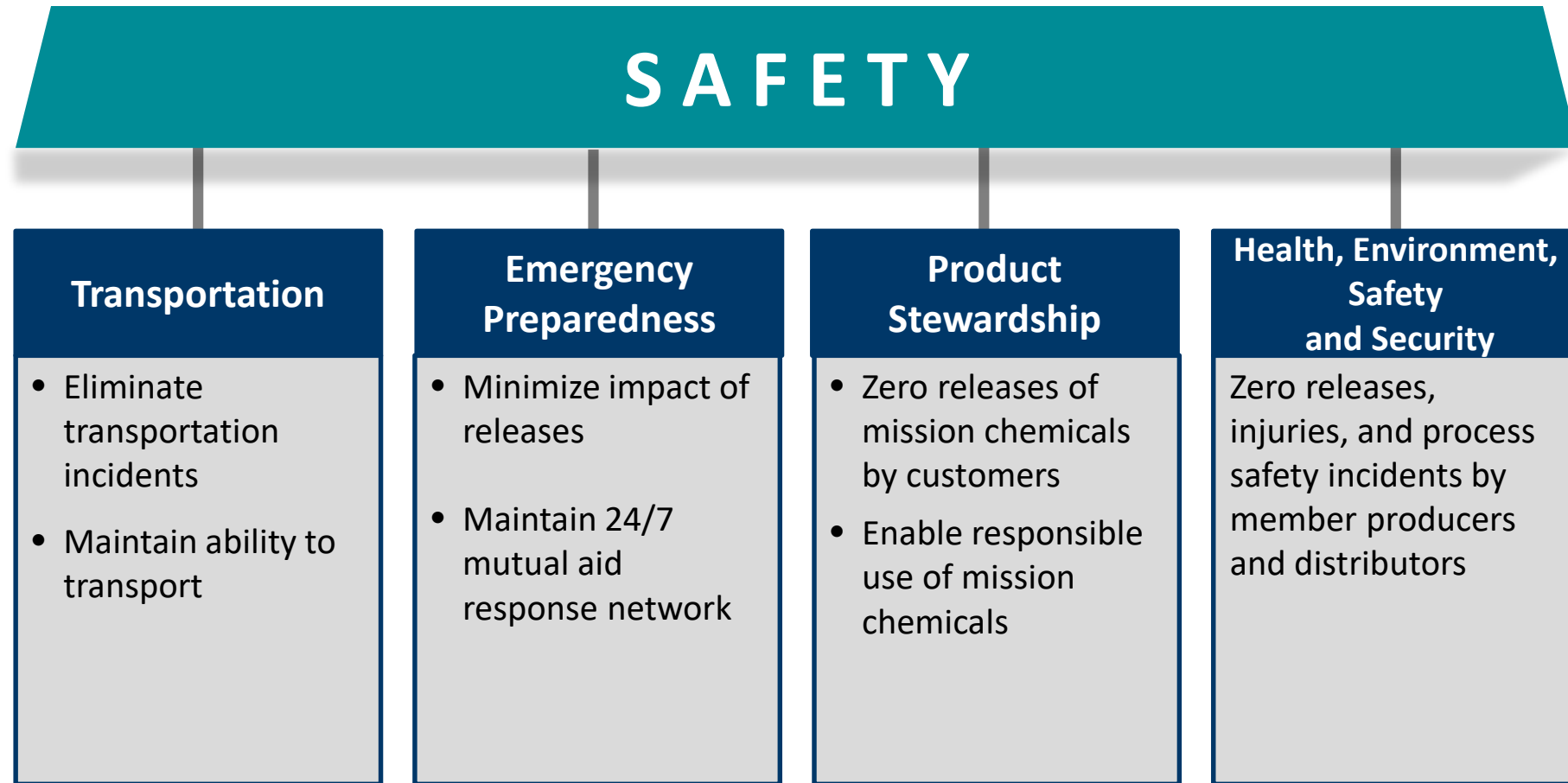
- Continuously improving safety
- Protecting human health
- Protecting of the environment
- Maintaining security of mission chemicals

# CI is Focused on Chlor-Alkali Chemicals

## CI's Mission Chemicals Are:

- Chlorine
- Sodium & Potassium Hydroxides (Caustic)
- Sodium Hypochlorite (Bleach)
- Hydrogen Chloride (*Distribution and Use Only*)
- Vinyl Chloride Monomer (*Distribution Only*)

# The Chlorine Institute's Structure

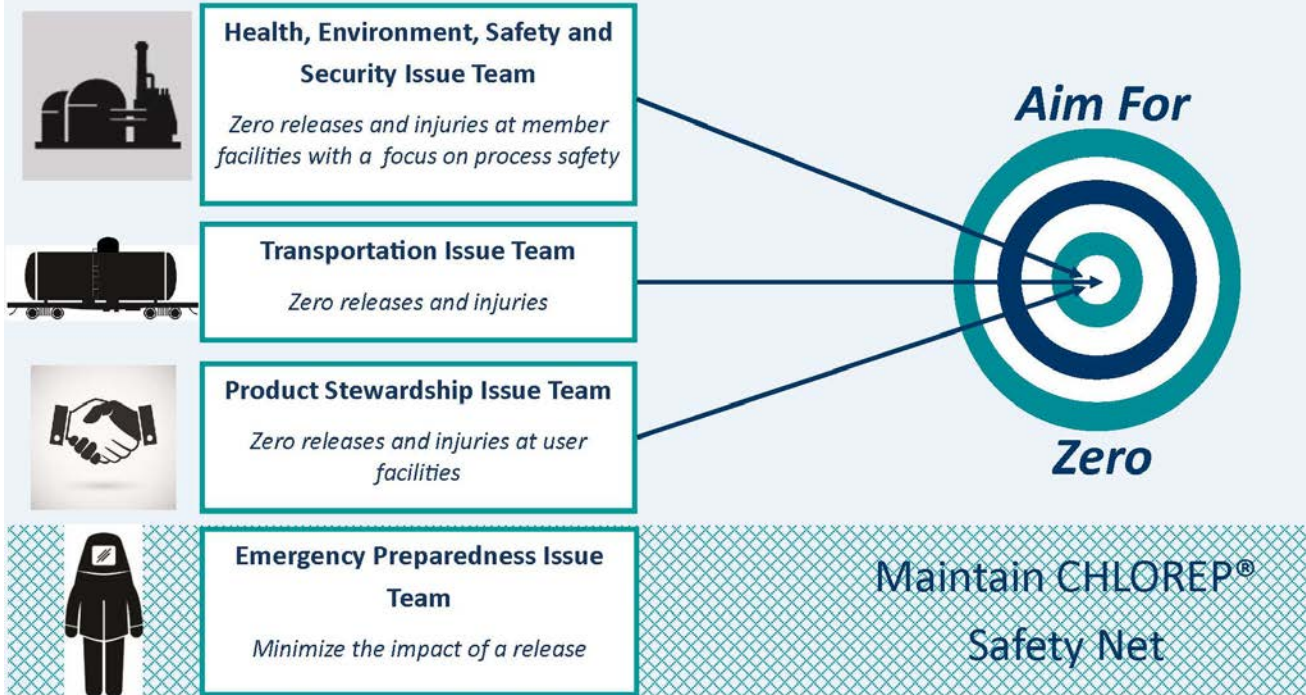


# CI's Strategic Plan

## Chlorine Institute Strategic Plan

The Chlorine Institute exists to support the chlor-alkali industry in advancing safe, secure, environmentally compatible, and sustainable production, distribution, and use of its mission chemicals\*.

*\*CI's mission chemicals: chlorine, sodium and potassium hydroxides, sodium hypochlorite, the distribution of vinyl chloride monomer (VCM), and the distribution and use of hydrogen chloride.*



# The Chlor-Alkali Industry is Committed to Safety

## Nearly 200 Member Organizations

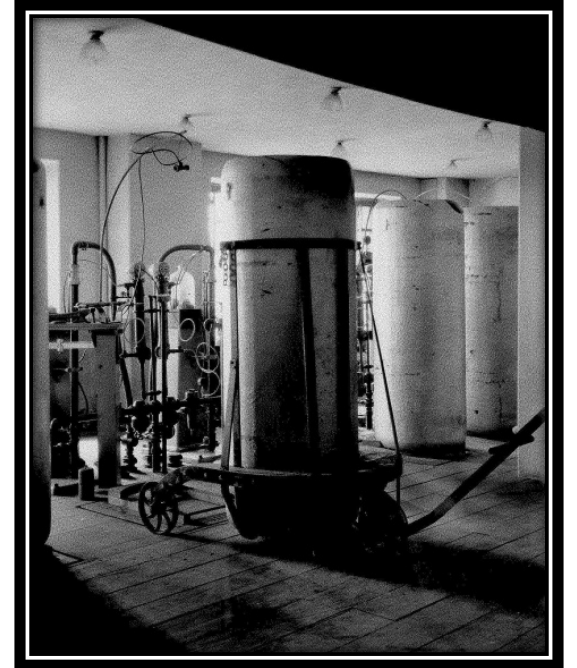
- Chlorine Producers
- Chlorine Distributors (Packagers)
- Bleach Producers
- Equipment Manufacturers
- Equipment Suppliers
- Engineering Firms
- Emergency Response Contractors

## Which Enables CI To Provide

- Free, downloadable safety pamphlets
- Forums for industry to share best practices
- Video resources
- CHLOREP Mutual Aid Network
- TRANSCAER Training
- Expertise to provide comments in the regulatory process
- Technical email inbox

# The History of The Chlorine Institute

- In January 1924, 10 companies joined forces to develop new markets and uses for chlorine
- The focus quickly changed to safety, as members found that selling the product was an individual company responsibility



# The History of The Chlorine Institute

- Accomplishments include:
  - Established a mutual-aid network (CHLOREP®)
  - Maintained library of 56 pamphlets
  - Produced 12 videos
  - Partnered with TRANSCAER®
  - Developed chlorine emergency kits for cylinders, ton containers, rail cars, and cargo tanks
  - Established research agreement with U. S. government to model chlorine's properties





# Stewardship is a Foundational Principle of CI Members

All members who **sell or use** chlorine sign a commitment annually to:

- Follow Chlorine Institute guidance on safe handling, storage, and transport
- Audit their own facilities for safety and security measures
- Have an emergency response plan in place and perform periodic drills

# Stewardship is a Foundational Principle of CI Members

## SUPPLIERS Commit to...

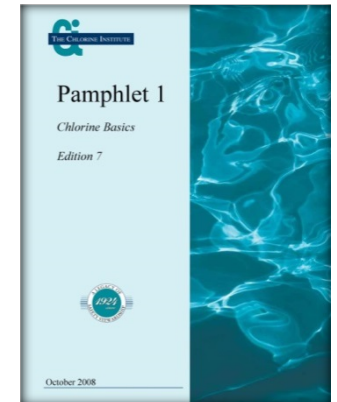
Ensure that each customer has the appropriate infrastructure and expertise to properly handle the chemical(s). This includes customer visits and requesting supporting documentation.

## USERS Commit to...

Work with our chlorine suppliers to ensure that we are in compliance with the Chlorine Customers Generic Safety and Security Checklist or comparable documents developed by our suppliers

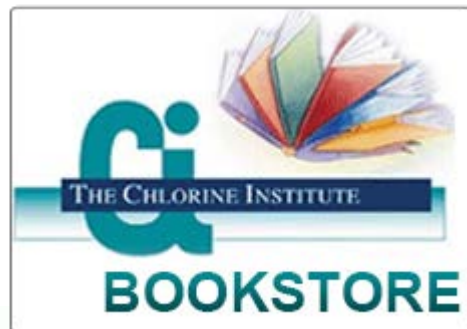
# Chlorine Institute Safety Pamphlets are Invaluable

- Pamphlets are 10-100+ page guidance documents that detail chemical properties, safe handling, use, and transport
- Popular titles include:
  - 1) Chlorine Basics
  - 6) Piping Systems for Dry Chlorine
  - 17) Packaging Plant Safety and Operational Guidelines
  - 96) Sodium Hypochlorite Manual
  - 163) Hydrochloric Acid Storage and Piping Systems



# Numerous Free Pamphlets (Members and Non-Members)

- All safety pamphlets are free to download, there are currently more than 50
- Log onto  
<https://bookstore.chlorineinstitute.org/>
- Select “Electronic Download” as the delivery method for the free version



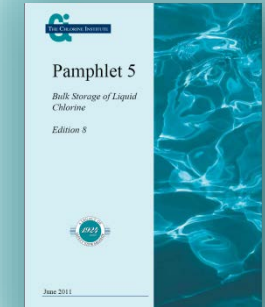
# Pamphlet Review Process



**Detailed,  
line-by-line  
review of  
pamphlet text  
and graphics**

**Opportunity for  
all members to  
comment on  
proposed  
changes;  
Significant  
comments are  
evaluated by  
task group**

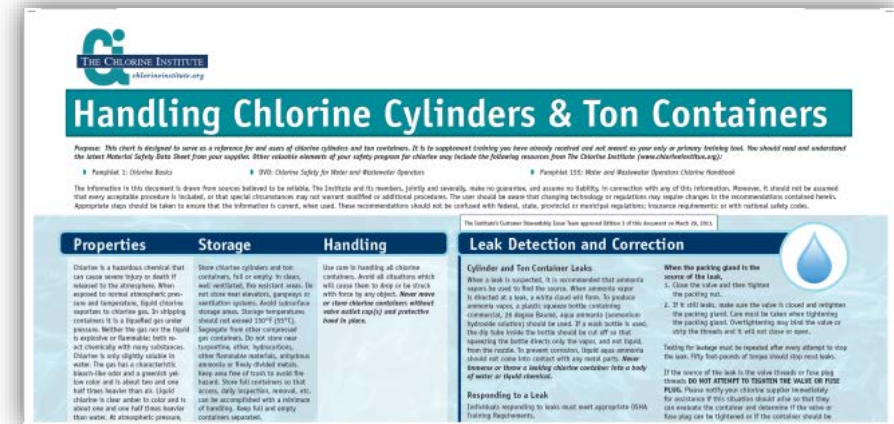
**Issue Team  
reviews,  
resolves any  
final issues, and  
votes for  
approval**



**New  
Pamphlet  
Edition!**

# Wall Charts Clearly Display the Message of Safety

- Wall Charts are quick-reference guides for operational personnel
- Available in English, Spanish, and French
- Four charts are available:
  - Cl<sub>2</sub> Cylinders and Ton Containers
  - Handling Sodium Hypochlorite
  - Handling Hydrochloric Acid
  - Handling Caustic Soda & Potash



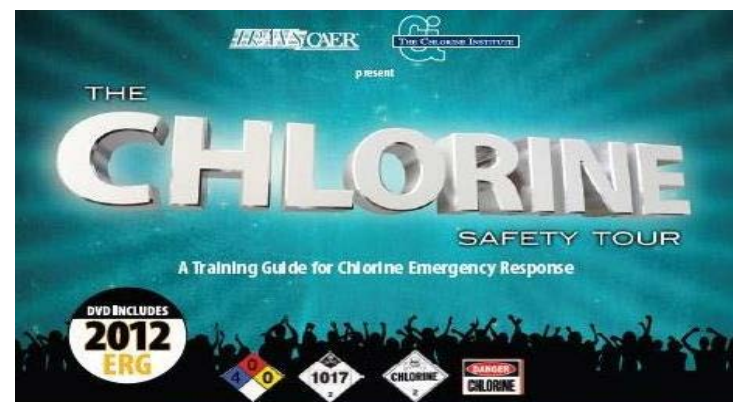
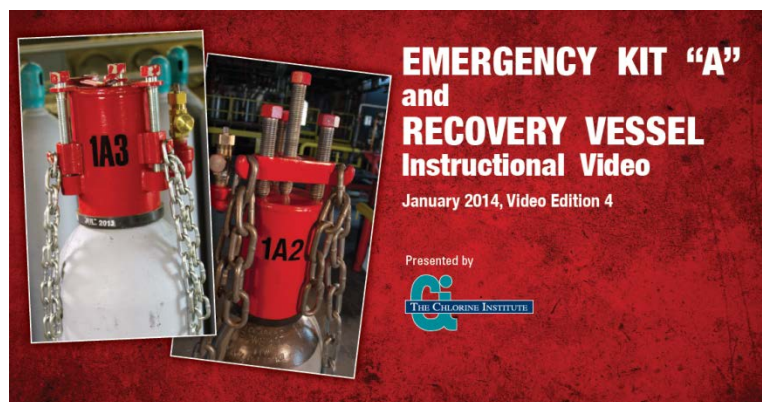
# Chlorine Institute Videos Demonstrate Safety Practices

- Videos range in topics from safe handling to emergency response to chemical properties
- Popular Titles include:
  - W) Chlorine Safety for Water & Wastewater Operators
  - HYPO) Handling Sodium Hypochlorite Safely
  - CLS) Preventing Non-Accident Releases from Chlorine Railcars by Properly Securing Return Shipments
  - A, B, or C) Emergency Kit Videos
  - H) First Response to Chlorine Exposures
  - FR) Chlorine Emergencies: An Overview for First Responders



# Chlorine Institute Videos Demonstrate Safety Practices

- Videos can be ordered from the bookstore
- Log onto <https://bookstore.chlorineinstitute.org/>
- Videos can also be streamed on the CI YouTube page (search Chlorine Institute)





## In Addition to Published Literature, CI Staff Regularly Fields YOUR Questions

- Anyone can submit a question through the Tech Service Inbox
- CI staff will search our literature for an appropriate response
- If the inquiry is safety-related and NOT addressed in our literature, CI staff will contact CI members for further guidance
- Send questions to [techsvc@CL2.com](mailto:techsvc@CL2.com)



# Thank you for your attention!!!

CI exists to promote safety

Visit us online: <http://chlorineinstitute.org>

